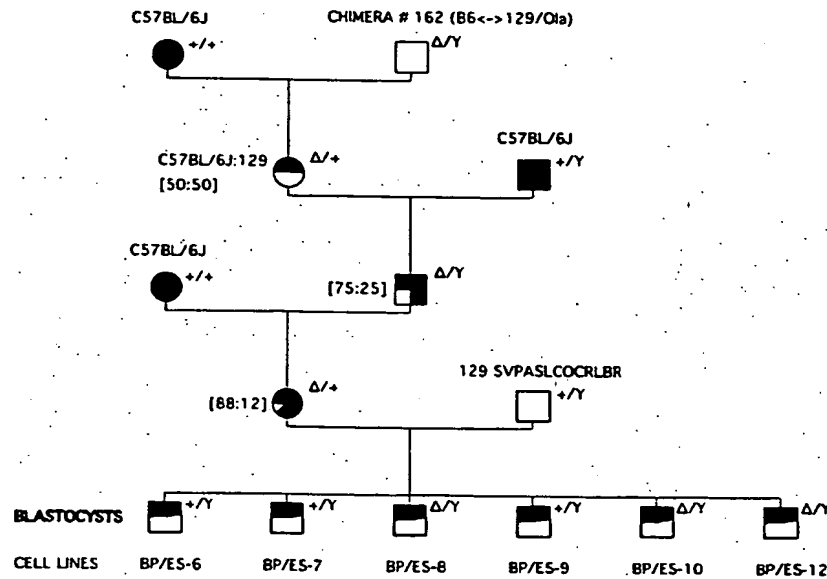


Figure 1





**Predicted genetic composition of BP/ES HPRT null cell lines:**

(Lines 4, 5)

31% C57BL/6

19% 129/Ola

50%

129/SVPASCOCLBR

(Lines 8, 10, 12)

44% C57BL/6

6% 129/Ola

50%

129/SVPASCOCLBR

Figure 2 cont.

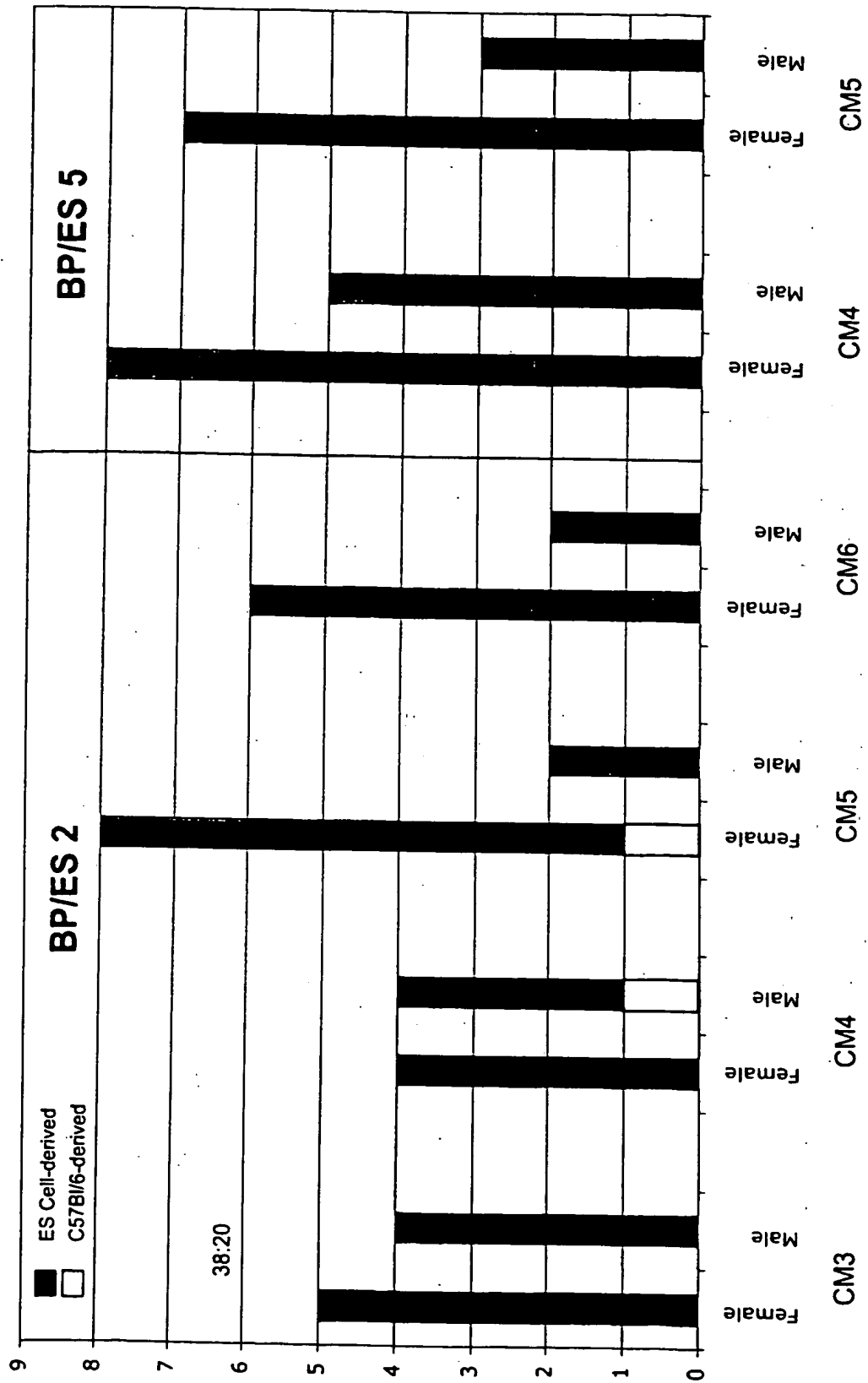


Figure 3

ES Cell Derivation

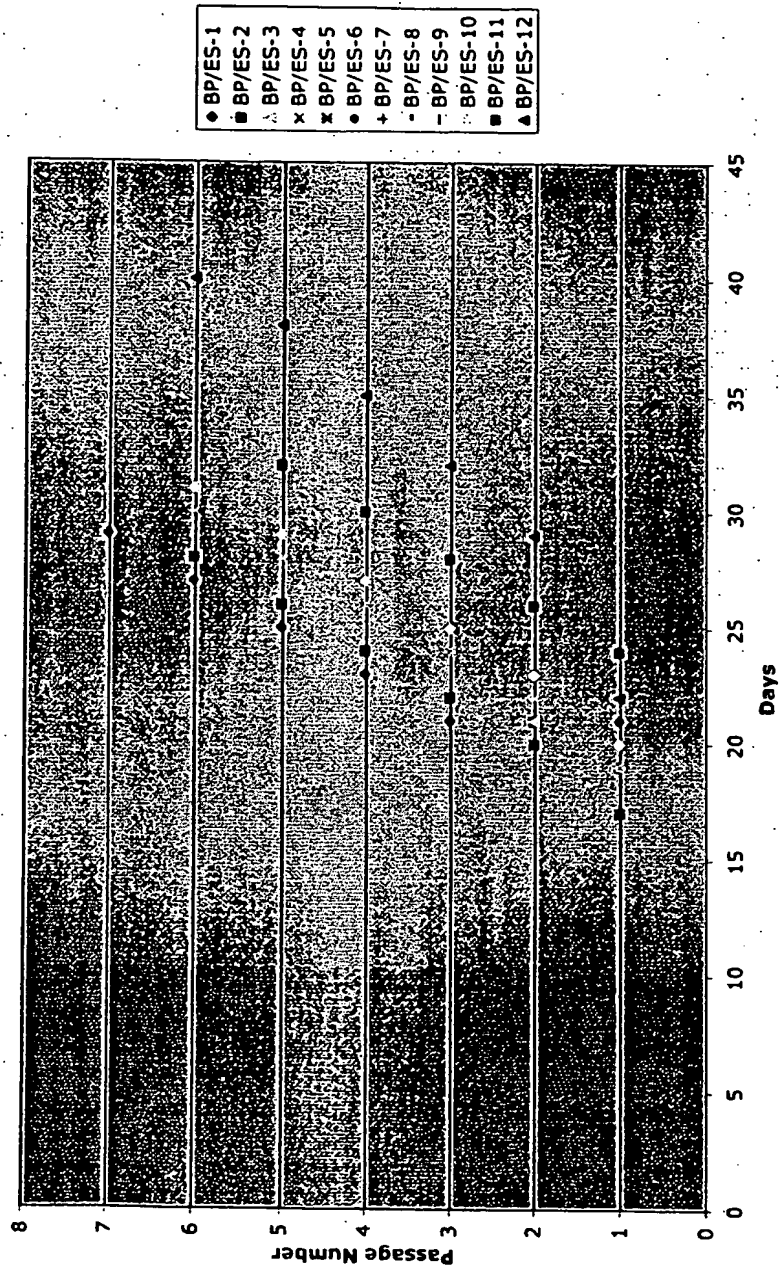
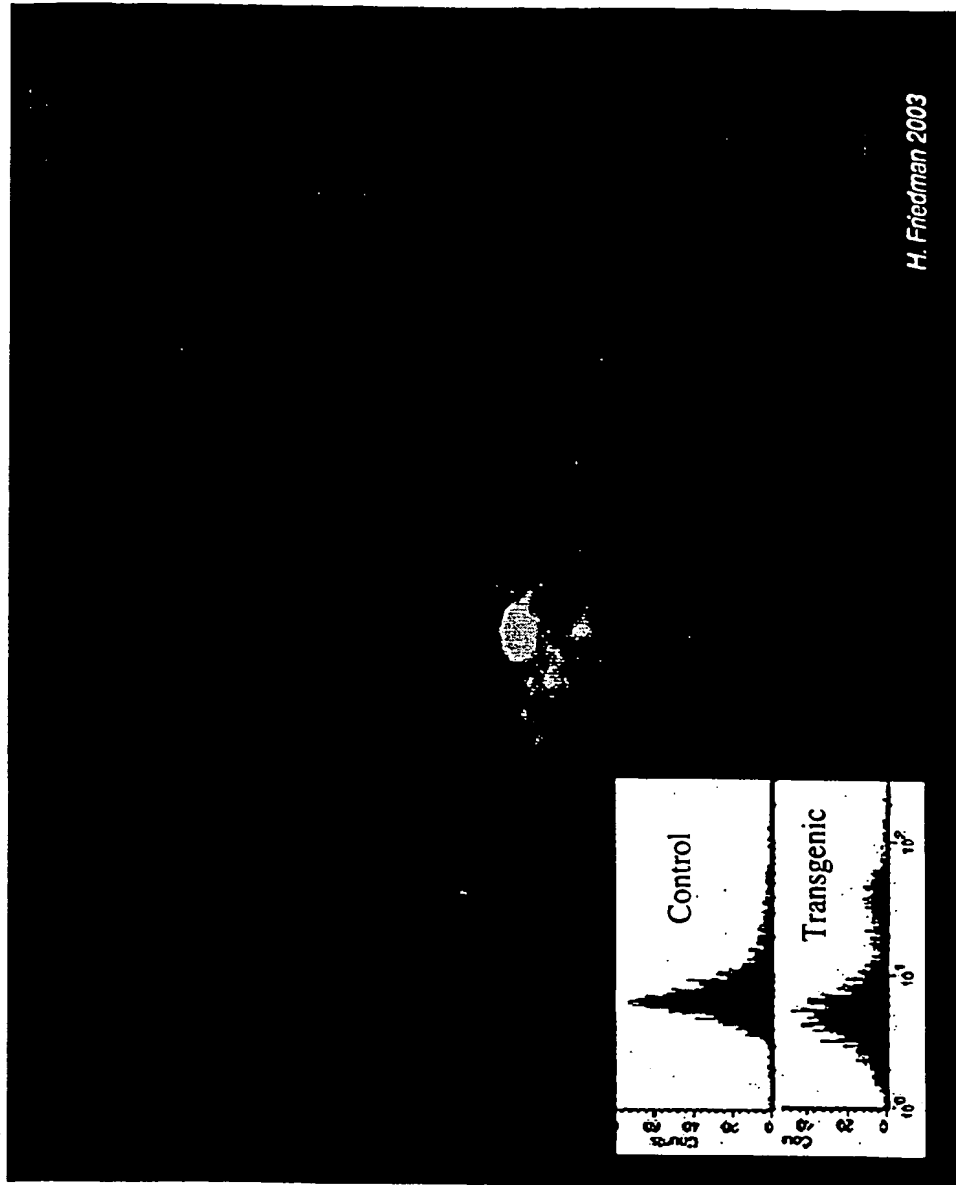


Figure 4



Figure 5

SINGLE COPY MBP- eGFP REPORTER @ HPRT  
CHIMERA BK/ES4 <-> C57BL/6



H. Friedman 2003

Figure 6



Figure 7



## DNA + 1 MONTH = MICE

[illegible]

**T** = Transfection  
**S** = # of days under selection  
**CS** = Cloning initiated  
**I** = Injection (Pas = passage #, F = recipient #)  
**D** = Day of birth  
**CS** = Cesarean section  
**P** = # of days post-natal

Figure 8

ES LINE	CONSTRUCTS	CLONES/ CONSTRUCT	CHIMERAS BRED/ CONSTRUCT	CHIMERAS TRANSMITTING	CONSTRUCTS TO GERM LINE
BK4	LAST 7	3	11	8% (1135 progeny) <i>multiple litters</i>	2/7 (29%)
BPES/5	FIRST 7	1	2	71% (88 progeny) <i>first litters</i> 44% germ line only	5/7 (71%)

33% effort	18 % effort	<7% effort
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Figure 9

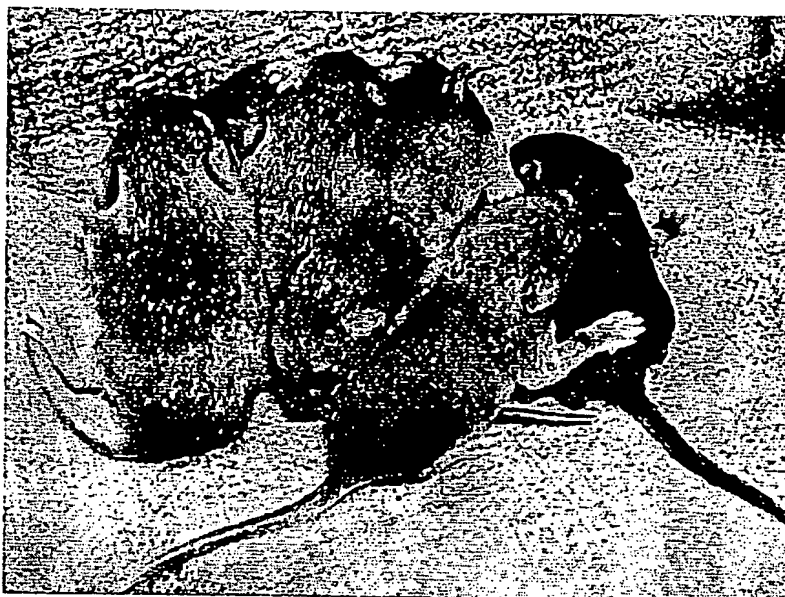


Figure 10

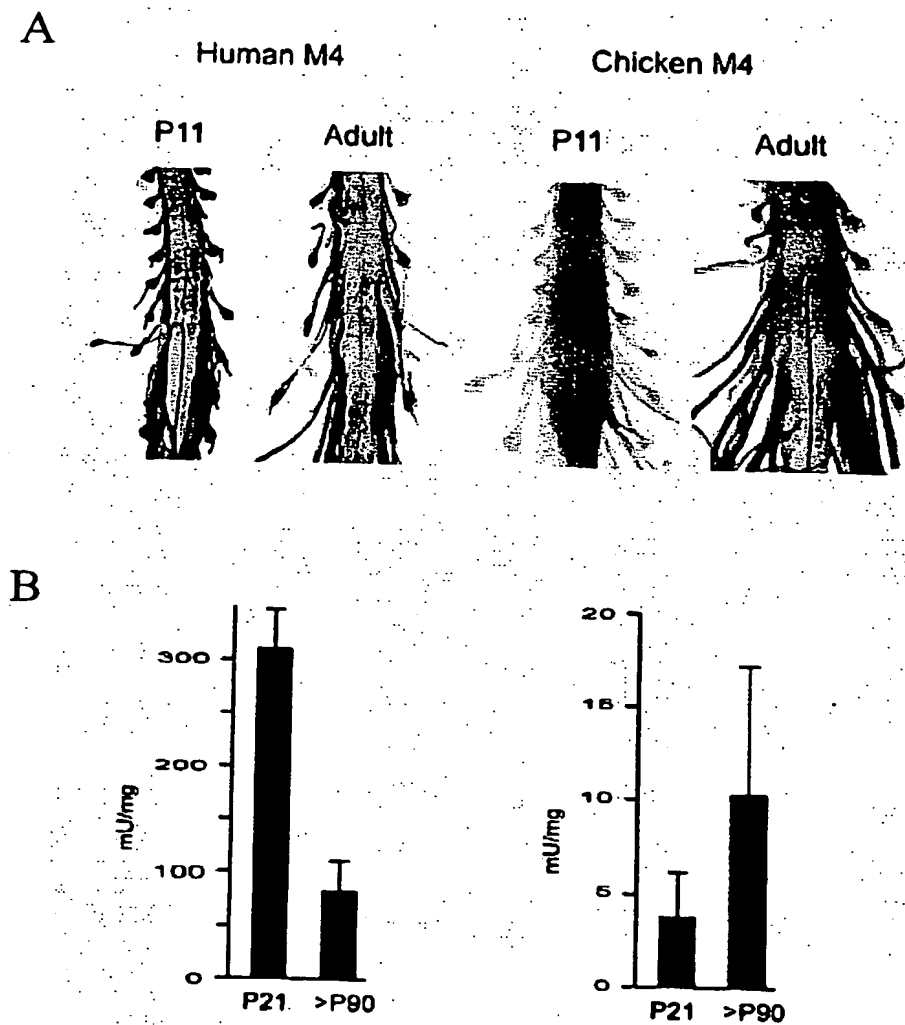


Figure 11

BEST AVAILABLE COPY

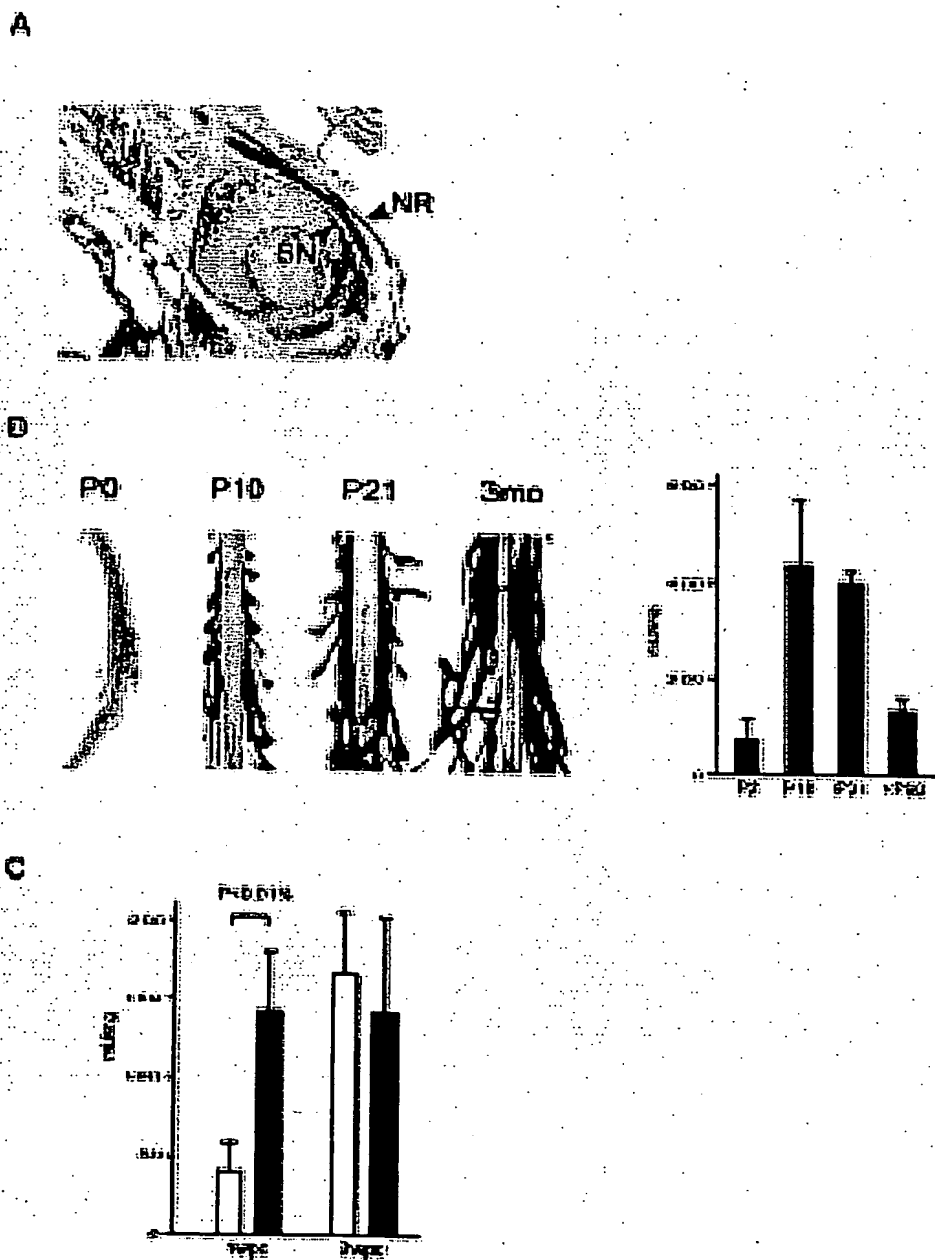


Figure 12

BEST AVAILABLE COPY

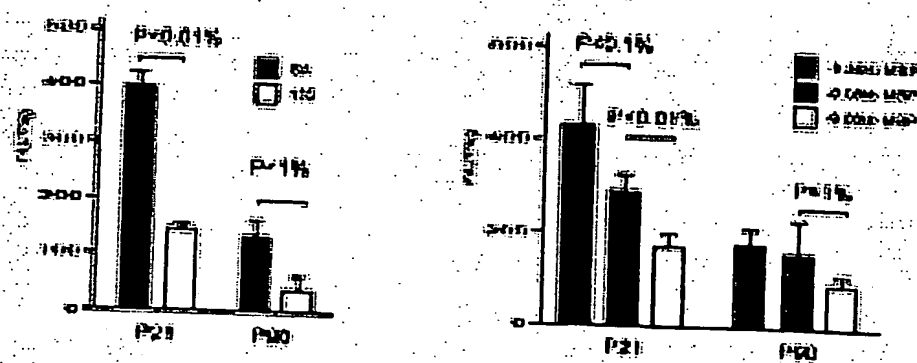


Figure 13